

CORRES. CONTROL
OUTGOING LTR NO.

DOC ORDER #

93 RF 10772

EG&G ROCKY FLATS

G&G ROCKY FLATS, INC.

ROCKY FLATS PLANT, P.O. BOX 464, GOLDEN, COLORADO 80402-0464 • (303) 966-7000

August 31, 1993

93-RF-10772

DIST.	LTR	ENC
AMARAL, M.E.		
BENEDETTI, R.L.		
BENJAMIN, A.		
BERMAN, H.S.		
BRANCH, D.B.		
CARNIVAL, G.J.		
COPP, R.D.		
DAVIS, J.G.		
FERRERA, D.W.		
HANNI, B.J.		
HARMAN, L. K.		
HEALY, T.J.		
HEDAHL, T.		
HILBIG, J.G.		
KIRBY, W.A.		
KUESTER, A.W.		
MANN, H.P.		
MARX, G.E.		
MCDONALD, M.M.		
McKENNA, F.G.		
MONTRÖSE, J.K.		
MORGAN, R.V.		
POTTER, G.L.		
PIZZUTO, V.M.		
RILEY, J.H.		
RISING, T.L.		
SANDLIN, N.B.		
SETLOCK, G.H.		
STEWART, D.L.		
SULLIVAN, M.T.		
SWANSON, E.R.		
WILKINSON, R.B.		
WILLIAMS, S. (ORC)		
WILSON, J. M.		
WYANT, R.B.		
Greengard, J.C.	X	
Roushey, W.J.		
CORRES CONTROL	X	X
ADMIN RECORD		
PATS/T130G		
TRAFFIC		

CLASSIFICATION:

UCNI	
UNCLASSIFIED	
CONFIDENTIAL	
SECRET	

AUTHORIZED CLASSIFIER
SIGNATURE

Not req'd per
class. office

DATE exemption

IN REPLY TO RFP CC NO:

ACTION ITEM STATUS

☐ PARTIAL OPEN

☐ CLOSED

LTR APPROVALS:

ORIG & TYPIST INITIALS

WJR/cet

RF-46489 (Rev. 7/93)

Dr. Manoranjan Misra

Department of Chemical & Metallurgical Engineering/168

Mackay School of Mines

Reno, Nevada 89557-0146

UNIVERSITY OF NEVADA/RENO SOIL ACCEPTANCE CRITERIA - WJR-003-93

In response to the above referenced correspondence, the following information is provided.

EG&G Rocky Flats Plant (EG&G-RFP) intends to ship a bulk sample of soil from Surficial Soil Sampling Plot Identification Number 80 (Operable Unit No. 2, Phase II RCRA Facilities Investigation/Remedial Investigation Work Plan).

- 1) The concentration of radionuclides in the soil is not explicitly available prior to analytical determination, however, previous sampling events have resulted in isotherms of both plutonium and americium for the sampling area. Those isotherms provide the following approximate values: plutonium - 20 pCi/g and americium - 5 pCi/g.
- 2) Soil density is in the range of 1.11 to 1.21 g/cc.
- 3) Total weight is estimated to be 4,000 lbs.
- 4) Isotopes present as well as TCLP analytical results are presented as Appendix 1 for a separate soil sample taken from Area 80.

Rocky Flats plant will in general accept any unused soil and test residues generated from testing on Rocky Flats soils. Before these materials can be returned the following are needed:

- Complete RCRA analysis for hazardous constituents (VOCs, SVOC, metals).
- Disclosure of all treatment processes, chemical additions etc.
- All test products must be dewatered - no free water will be accepted as returned materials (i.e. all water must be treated at the testing facility).
- PPE and other equipment will not be accepted as these materials need to be disposed of at the testing facility.
- Materials must be packed for return by a DOT certified package. Evidence of having the proper DOT certification must be presented to the Rocky Flats Traffic Department.

If you have any questions or require further information, please call me at 303-966-6951.



W. J. Roushey

Environmental Engineering & Technology

WJR:cet

Attachment:

As Stated

DOCUMENT CLASSIFICATION
REVIEW WAIVER PER
CLASSIFICATION OFFICE

VOA DATA - August 23, 1993

Loc	ST	QC	Sample Number	Smpl Date	ID	Group	Chemical	Result	Unit	Error	Qual	D.LMT	VA	RN1	RN2	RN3	RN4	VResult	VUnit	VQual	VOET
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	VOATCLPR	1,1-DICHLOROETHENE	50	UG/L		U	5	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	VOATCLPR	1,2-DICHLOROETHANE	50	UG/L		U	5	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	SPORG	1,4-DICHLOROBENZENE	40	UG/L		U	40	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	SPORG	2,4,5-TRICHLOROPHENOL	200	UG/L		U	200	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	SPORG	2,4,6-TRICHLOROPHENOL	40	UG/L		U	40	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	SPORG	2,4-DICHLOROPHENOXYACETIC	120	UG/L		U	120	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	SPORG	2,4-DINITROTOLUENE	40	UG/L		U	40	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	VOATCLPR	2-BUTANONE	100	UG/L		U	10	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	SPORG	2-METHYLPHENOL	40	UG/L		U	40	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	SPORG	4-METHYLPHENOL	40	UG/L		U	40	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	VOATCLPR	BENZENE	50	UG/L		U	5	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	VOATCLPR	CARBON TETRACHLORIDE	50	UG/L		U	5	R	41							
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	SPPPB	CHLORDANE	.7	UG/L		U	.7	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	VOATCLPR	CHLOROBENZENE	50	UG/L		U	5	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	VOATCLPR	CHLOROFORM	50	UG/L		U	5	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	SPPPB	ENDRIN	.3	UG/L		U	.3	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	SPPPB	HEPTACHLOR	.15	UG/L		U	.15	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	SPPPB	HEPTACHLOR EPOXIDE	4.2	UG/L		U	4.2	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	SPORG	HEXACHLOROBENZENE	40	UG/L		U	40	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	SPORG	HEXACHLOROBUTADIENE	40	UG/L		U	40	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	SPORG	HEXACHLOROETHANE	40	UG/L		U	40	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	SPPPB	METHOXYCHLOR	8.8	UG/L		U	8.8	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	SPORG	NITROBENZENE	40	UG/L		U	40	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	SPORG	PENTACHLOROPHENOL	200	UG/L		U	200	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	SPORG	PROPANOIC ACID, 2-(2,4,5-	17	UG/L		U	17	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	SPORG	PYRIDINE	40	UG/L		U	40	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	VOATCLPR	TETRACHLOROETHENE	50	UG/L		U	5	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	SPPPB	TOXAPHENE	12	UG/L		U	12	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	VOATCLPR	TRICHLOROETHENE	50	UG/L		U	5	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	VOATCLPR	VINYL CHLORIDE	100	UG/L		U	10	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	SPPPB	gamma-BHC (LINDANE)	.2	UG/L		U	.2	V								

RADS DATA - August 23, 1993

Loc	ST	QC	Sample Number	Smpl Date	ID	Group	Chemical	Result	Unit	Error	Qual	D.LMT	VA	RN1	RN2	RN3	RN4	VResult	Vunit	VQual	VDET
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	TRADES	CESIUM-137	1.277	PCI/G	.157		.1									
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	TRADES	GROSS ALPHA - DISSOLVED	23.01	PCI/G	5.91	4										
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	TRADES	GROSS BETA - DISSOLVED	38.54	PCI/G	3.95	10										
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	TRADES	RADIUM-226	.8491	PCI/G	.153	.5										
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	TRADES	RADIUM-228	2.166	PCI/G	.321	.5										

WQHP DATA - August 23, 1993

Loc	ST	QC	Sample Number	Smpl Date	ID	Group	Chemical	Result	Unit	Error	Qual	D.LMT	VA	RN1	RN2	RN3	RN4	VResult	Vunit	VQual	VDET
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	WQPL	CYANIDE	.544	UG/G		U	.5	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	WQPL	SULFIDE	12.5	UG/G		U	10	V								
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	WQPL	PH	6.05	PH			.1	V								

METALS DATA - August 23, 1993

Loc	ST	QC	Sample Number	Smpl Date	ID	Group	Chemical	Result	Unit	Error	Qual	D.LMT	VA	RN1	RN2	RN3	RN4	VResult	Vunit	VQual	VDET
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	METICLPR	ARSENIC	87.2	UG/L		U	500	JA	11							
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	METICLPR	BARIUM	1260	UG/L			10	JA	11							
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	METICLPR	CADMIUM	4.1	UG/L		U	10	R	5							
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	METICLPR	CHROMIUM	5.4	UG/L		U	25	JA	5	11						
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	METICLPR	LEAD	73.1	UG/L		U	200	JA	11							
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	METICLPR	MERCURY	1	UG/L		U	.2	JA	11							
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	METICLPR	SELENIUM	144	UG/L		U	500	JA	11							
SS003292	SS	REAL	SS01193ST	18-NOV-92	TRG	METICLPR	SILVER	6	UG/L		U	20	R	13	10						